AMENDMENT UNDER 37 C.F.R. § 1.116

U.S. Application No.: 09/462,631

Attorney Docket No.: Q57317

IN THE CLAIMS:

Please enter the following amended claims:

1. (currently amended) A green-compact electrode for electrical discharge

surface treatment of a work comprising: a mixed material of a metal powder and a

working fluid liquid having a carbon component.

2. (currently amended) A green-compact electrode for electrical discharge

surface treatment according to claim 1, wherein the working fluid liquid constitutes 5

wt % to 10 wt % of the green compact electrode.

3. (currently amended) A method of manufacturing a green-compact electrode

for electrical discharge surface treatment comprising; the step of compression-molding

a mixed material of a metal powder and a working fluid liquid having a carbon

component.

4. (currently amended) A method of manufacturing a green-compact electrode

for electrical discharge surface treatment according to claim 3, wherein a mixture ratio

of the working fluid liquid constitutes 5 wt % to 10 wt % of the green compact

electrode.

5. (currently amended) A method of performing electrical discharge surface

treatment comprising:

positioning a green-compact electrode comprised of a mixed material of a metal

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powder and a working <u>fluid liquid</u> having a carbon component opposite a work in a second working <u>fluid liquid</u>, which is the same as the working <u>fluid liquid</u> within the green-compact electrode; and

forming a hard coating film on the work by causing electrical discharge between the green compact electrode and the work.

- 6. (currently amended) An apparatus for performing electrical discharge surface treatment comprising: a green-compact electrode comprised of metal powder and a working fluid liquid having a carbon component; a work; a working tank for receiving said work; and means for causing an electrical discharge between said green compact electrode and said work.
- 7. (currently amended) A method of recycling a green-compact electrode for electrical discharge surface treatment comprising:
- a) compression molding a mixed material of a metal powder and a working fluid liquid having a carbon component to form the green-compact electrode;
 - b) positioning the green-compact electrode opposite a work;
- c) performing discharge surface treatment by causing electrical discharge between the green-compact electrode and the work to form a hard coating on the work;
- d) pulverizing portions of the green-compact electrode which are left after said discharge surface treating has been completed into powder, and
- e) compression molding the powder obtained from the pulverizing step to obtain a new green-compact electrode.

8. (currently added) A method of recycling electrodes used in electrical discharge surface treatment, comprising:

collecting used electrodes which are primarily composed of compressed powders;

pulverizing said used electrodes into a powder; and compression molding said powder to form new electrodes.